



PRODUCT MetsäBoard Pro WKL 130-200 g/m²

COMPANY Metsä Board Corporation

MILL Kemi mill

Information gathered from 1.1.2021 to 31.12.2021 Date of issue 1.4.2022

ENVIRONMENTAL PRODUCT DECLARATION FOR PAPERBOARD

ENVIRONMENTAL MANAGEMENT

Certified environmental management system at the mill since 1995

Company systems ensure traceability of the origin of wood: YES NO 100% RECOVERED PAPER

Certified environmental management system for wood procurement and board and pulp production according to ISO 14001. Certified PEFC Chain of Custody (PEFC/02-31-92) and FSC® Chain of Custody (FSC-C001580). Certificates are available at metsaboard.com.

ENVIRONMENTAL PARAMETERS

The figures are based on methods and procedures of measurement approved by the local (or national) environmental regulators at the production site. The figures include both pulp and paperboard production.

Water	COD	11.9	kg/tonne
	AOX	0.096	kg/tonne
	NTot	0.191	kg/tonne
	PTot	0.010	kg/tonne

Air	SO ₂	0.16	kg/tonne
	NO _x	1.84	kg/tonne
	CO ₂ (fossil)	114	kg/tonne

Solid waste landfilled 6 BDkg/tonne

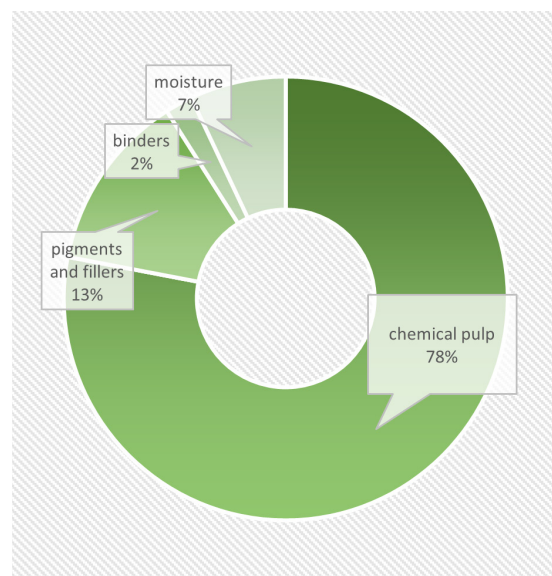
Purchased electricity consumption /tonne of final product 439 kWh

MORE INFORMATION

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PRODUCT COMPOSITION



This product contains biomass carbon, equivalent to 1430 kg of CO₂ per tonne of product.

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SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Pro WKL 130-200 g/m²

Metsä Board Kemi mill, Finland

MetsäBoard Pro WKL is a double-coated white top kraftliner for flexo postprint based on 100% fresh fibres. MetsäBoard Pro WKL offers high converting productivity and enables the printing of half-tone pictures with excellent gloss and colour density.

1. MILL INFORMATION

Metsä Board Kemi mill produces linerboard. The annual capacity of the mill is 425,000 tonnes of coated and uncoated white top kraftliner for high-quality corrugated retail and consumer packaging.

The main markets are Europe and North America. Vessels are used to transport the products from either Ajos port in Kemi or ports in Southern Finland to terminals in Europe and North America. Transport to Ajos port, to Southern Finland and to the Nordic market is serviced by truck.

Metsä Board Kemi mill is situated in the town of Kemi in northern Finland, on an island in the River Kemijoki's delta as it runs into the Gulf of Bothnia. At the same site, there is also a Metsä Fibre's pulp mill that provides water, pulp, energy, wastewater treatment and landfill services for Metsä Board Kemi. Metsä Board only uses Metsä Group's own pulps in its production. [More information at our website](#)

2. MAIN ENVIRONMENTAL TARGETS AND PERFORMANCE

Metsä Board's sustainability targets are based on Metsä Board's strategy and Metsä Group's strategic sustainability objectives which were renewed in 2019. These new targets extending to 2030 are mirrored across the supply chain and production processes to meet the requirements of the global Sustainable Development Goals, SDGs, set by the United Nations. Mitigating climate change is in the core of Metsä Board's sustainability efforts: the company aims to achieve fossil free mills by 2030 with zero fossil CO₂ emissions.

In 2021, 85% of the energy used by our mills was fossil free and the majority of our raw materials already came from renewable sources. We also aim not to use any fossil oil-based raw materials in our production from 2030 onwards. Metsä Board's energy efficiency increased by 4.3% from 2018 level (target minimum +10% by 2030) and the use of process water per product tonne decreased by 13% from 2018 level (target -30% by 2030).

In 2021, Metsä Board was recognised for leadership in corporate sustainability by global non-profit organisation CDP, securing a place on its prestigious 'A List' for tackling climate change as well as using water resources and forests sustainably – all three environmental themes covered by CDP. In addition, Metsä Board was selected on CDP's Supplier Engagement Rating Leaderboard for supply chain engagement on climate issues. CDP is a non-profit organisation offering a global disclosure platform for environmental information. In EcoVadis's corporate social responsibility assessment, Metsä Board achieved the highest level, Platinum, in 2021. This result places Metsä Board among the top 1% of the companies assessed by EcoVadis in the paper, paperboard and packaging industry. Read more in [Metsä Board's Annual and Sustainability Report 2021](#) and [sustainability web-pages](#).

3. MANAGEMENT SYSTEMS

Metsä Board continuously develops the efficiency of its production units to improve resource efficiency and environmental performance. Metsä Board follows up its environmental impact, for example, in the form of greenhouse gas emissions, energy and water consumption as well as waste generation. One of Metsä Board's key duties is to guarantee that all its operations are sustainable and that all its products are safe for both people and the environment.

All Metsä Board mills have ISO 22000 and in addition to that all mills producing paperboard for food end-use, Simpele, Kyrö, Kemi, Äänekoski and Husum board mills, are also certified according to FSSC 22000 (Food Safety System Certification). The FSSC 22000 provides a framework for effectively managing a company's food safety responsibilities and is recognised by the Global Food Safety Initiative (GFSI).

Metsä Board's environmental management follows Metsä Group's Environmental Policy and complies with ISO 14001 standard. The main principles of the Environmental Policy are environmental responsibility, sustainable forestry, and requiring responsibility in operations also from our suppliers. All production units have ISO 9001 quality, ISO 14001 environmental and ISO 50001 energy management systems as well as the ISO 45001 Occupational Health and Safety management system.

Metsä Board mills are certified according to PEFC and FSC CoC Forest certification systems which enable full traceability in the wood supply chain and the wood origins of its products are externally verified. Raw materials and services are purchased from suppliers signing and following Metsä Group's Supplier Code of Conduct.

MANAGEMENT SYSTEMS

ISO 9001 Quality	Inspecta No. 6396-06
ISO 14001 Environmental Management	Inspecta No. 6397-05
ISO 22000 Food Safety Management	Inspecta No. 6398-06
FSSC 22000 Food Safety System Certification	Inspecta No. 10581-03
ISO 50001 Energy Management	Inspecta No. 6399-08
ISO 45001 Occupational Health and Safety Management	Inspecta No. 6400-05
PEFC Chain of Custody	Inspecta No. 5328-06
FSC Chain of Custody	INS-COC-100100

SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Pro WKL 130-200 g/m²

Metsä Board Kemi mill, Finland

4. ORIGIN OF WOOD

Regardless of the country of origin or whether it comes from certified or controlled forests, Metsä Group always knows the origin of the wood it uses, ensures its legality and takes measures to prevent the risk of unacceptable practices in the supply chain.

Metsä Group uses wood that comes from sustainably managed forests. Metsä Group's wood procurement is handled by the company's principal owner, Metsäliitto Cooperative. Metsäliitto Cooperative holds PEFC Chain of Custody, FSC Chain of Custody and controlled wood certificates. Metsäliitto Cooperative's wood origin tracing system is included in its certified ISO 9001 and 14001 quality and environmental management systems.

Metsä Board uses only fully traceable wood for its products. In 2021, the share of certified wood Metsä Board used was 83% whilst worldwide only some 10% of all the forests are certified.

The product specific certification share is shown on delivery documents of each product. For information on labelled products please contact Metsä Board's local sales office.

Wood information of the product (gathered from 1.1.2021 to 31.12.2021):

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY	NAME OF SPECIES
Finland	96%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Sweden	4%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Latvia	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)

This product fulfils the requirements of EU Timber Regulation and UK Timber Regulation as well as US Lacey Act. More about Metsä Group's wood procurement: www.metsagroup.com

5. HANDLING AFTER USE

PRODUCT

Recommended handling after use is recycling but it can also be used for incineration. Preferred handling depends on local conditions and regulations.

PRODUCT PACKAGING MATERIAL

The packaging material can be recycled or incinerated to produce energy. Preferred handling depends on local conditions and regulations.

6. ENVIRONMENTAL PARAMETERS

COD = CHEMICAL OXYGEN DEMAND

The amount of oxygen consumed in complete chemical oxidation of matter present in waste water.

AOX = ADSORBABLE ORGANIC HALOGEN COMPOUNDS

Reported as the total amount of chlorine bound to organic compounds in waste water.

N_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC NITROGEN

P_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC PHOSPHORUS

SO₂ = SULPHUR DIOXIDE

Total sulphur emissions to air from burning sulphur-containing fuels and from chemical pulp processing, expressed as SO₂.

NO_x = NITROGEN OXIDES (NO AND NO₂)

Nitrogen oxides emissions to air from combustion processes, expressed as NO₂.

CO₂ = FOSSIL CARBON DIOXIDE

In the context of papermaking, fossil carbon dioxide is generated from the combustion of fossil fuels during the production of pulp and paper.

BIOGENIC CARBON

The amount of biomass based carbon stored in the product, expressed as CO₂.

SOLID WASTE = NON-LIQUID WASTE LANDFILLED ON SITE AND/OR ELSEWHERE

Organic and inorganic waste materials are defined, calculated and declared as completely dry matter.

PURCHASED ELECTRICITY CONSUMPTION

Amount of purchased electricity per produced tonne of product.

Note: Emissions of SO₂, NO_x and CO₂ resulting from external electricity suppliers are not included.



Metsä

Metsä Group is a forerunner in sustainable bioeconomy utilising renewable wood from sustainably managed northern forests. Metsä Group focuses on wood supply and forest services, wood products, pulp, fresh fibre paperboards and tissue and greaseproof papers.

In 2021, Metsä Group's sales totalled EUR 6.0 billion, and it employed approximately 9,500 people. Metsäliitto Cooperative is the parent company of Metsä Group and is owned by nearly 100,000 Finnish forest owners.

Metsä Board is a leading European producer of premium fresh fibre paperboards including folding boxboards, food service boards and white kraftliners. Our lightweight paperboards are developed to provide better, safer and more sustainable solutions for consumer goods as well as retail-ready and food service applications. We work together with our customers on a global scale to innovate solutions for better consumer experiences with less environmental impact. The pure fresh fibres Metsä Board uses are a renewable resource, traceable to origin in sustainably managed northern forests.

The global sales network of Metsä Board supports customers worldwide, including brand owners, retailers, converters and merchants. In 2021, the company's sales totalled EUR 2.1 billion, and it had approximately 2,400 employees. Metsä Board, part of Metsä Group, is listed on the Nasdaq Helsinki.

METSÄ BOARD

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